

Lean Six Sigma Master Black Belt – LIVE ONLINE

11 – four hour sessions including breaks; sessions run 10:00 am to 2:00 pm Eastern Time U.S.A. and 2 – two hour sessions (approximately 48 hours of training) plus the participant writes a highly-developed 8 to 12+ page whitepaper that is of significant strategic and market insight, and developed for use at their current business. A test is required. Lean Six Sigma Master Black Belt Certification is from Thayer School of Engineering at Dartmouth will be awarded upon successful completion of coursework, test, and white paper project.

Master Black Belt (MBB) Curriculum

(This course can also be conducted on-site, subject to price change and number of participants)

Notes:

1. We use Minitab in this course. Minitab is available for free trial for 30 days. Sign up for Minitab just prior to using it to make sure the trial does not run out before you do the case study and test. This Minitab fee is in addition to the course fee. Non-participants are not eligible for the Minitab license so please do not purchase if you are a non-course participant. Email the administrator for purchase access.

	6-month license	12-month license
Quantity	Per participant	Per participant
Minitab 18	\$430.00	\$859.00

2. Built-in speakers and microphone do not work well due to echo effect so headset with microphone is necessary. This gives you complete interaction with the instructor and other participants. No phone calls to make, just login, turn your volume to the proper level and you should be all set to participate, or use the phone if you prefer.
3. All live online sessions are recorded in the event you miss a session or for use as review material. Classroom sessions are not recorded.
4. Instructors and dates are subject to change depending upon availability of instructors.
5. Statistics courses typically run 2 plus hours; the instructor may assign homework for the remaining 2 hours.

Who Should Attend?

This Course is designed for Master Black Belt candidates who are directors, managers, engineers and others who already have a certified Lean Six Sigma or Six Sigma Black Belt. We will NOT cover the topics from the Lean Six Sigma Black Belt

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Course. Participants must have a Six Sigma or Lean Six Sigma Black Belt prior to entry into this course.

To Quality for This Course:

1. **Send a pdf copy** of your Six Sigma or Lean Six Sigma Black Belt to Dan Feliciano, Thayer School of Engineering Dartmouth LSS Live Online Administrator; email: Dan@OpEx90.com; please note we reserve the right to validate this credential from the issuing organization, and that by registering and paying the course fee you are granting us this right. Those who do not send a copy of their Black Belt will not be allowed to take this course.

Prior Projects:

We are NOT requiring prior projects. We do require a highly-developed 8 to 12+ page whitepaper that is of significant strategic and market insight, and developed for use at your current business.

Objectives

- Develop leaders in the company who become capable of leading the six sigma culture.
- Expand your competence in leadership, business acumen, and six sigma technical expertise
- Gain the knowledge needed to move from the big picture to actual implementation
- Become role models for black belts and others
- Learn advanced six sigma techniques and how to deploy them

Course Topics (subject to change without notice as appropriate)

Leadership topics covered in the Master Black Belt Course are based on the book: “Leadership’s Broken Link” course. Subject material will be advanced through PPT presentations and assigned reading from supplied materials. Subject material includes but is not limited to:

- Strategic Leadership
 - Strategic Initiative Development
 - Leadership Principles
- How Do Groups Fit?

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- Where Are Our Groups Going?
- Moving From Goals to Metrics
- Future State Action Plan Implementation
- Managing Individuals and Collaborative Groups
- Developing a Culture of Kaizen
- Writing your whitepaper which should be presentable to your business - a strategic focus on a lean six sigma culture with implementation plans.

Technical Topics (subject to change without notice as appropriate)

Six Sigma technical topics will be covered via lecture and advanced through detailed examples and discussions:

- Advanced Design for Six Sigma, product or process *design* in contrast with process *improvement*
- Advanced Regression Techniques
- Advanced Design of Experiments (DOE)

Course Format

The course includes:

- 11 (4-hour) days and 2 (2 hour) days of live online training. The format of the live online training is lecture, discussion, and activities. For example: Some sessions maybe 2 hours live online with 2+/- hours of homework. All training is delivered by a qualified instructor. All live online sessions will be recorded and available for download for those that miss a session, and for review and historical reference. Formal lectures stop at the end of day 13 and rejoins for whitepaper presentations after approximately 30 days.
- Read the entire text “Leadership’s Broken Link”; approximately 100 detailed pages

Course Deliverables

- Complete homework assignments from the book, Leadership’s Broken Link, and the Leadership I/O manual
- Complete homework assignments from the Technical Topics

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- Participants will complete an 8 to 12+ page (1.15 line spacing, 1 inch margins) whitepaper based upon the book “Leadership’s Broken Link.” Participants have 30 days from the end of lectures to develop the whitepaper and presentation PPTs. The whitepaper will be delivered to the appropriate instructor per later supplied directions. Whitepaper is pass/fail basis.
- Class will resume after the 30 day whitepaper development hiatus; participant will present the whitepaper through PPTs that they individually develop – 1 hour Live Online Format for presentation with a 0.5 hour question and answer from other participants and the instructor, presentation is pass/fail basis.
- Participants will complete a test (about 16 hours of take home work open book, open notes) to demonstrate their knowledge of prior Black Belt material (from their prior learning) not taught in this course (as a Black Belt you must be able to do this through your own effort):
 1. Confidence Interval/Hypothesis Test Problem(s)
 2. Poisson Distribution Problem(s)
 3. Binomial Distribution Problem(s)
 4. DOE Problem(s)
 5. SPC Problem(s) and,the test will include knowledge of material taught in this course:
 1. Advanced Design for Six Sigma, product or process *design* in contrast with process *improvement*
 2. Advanced Regression Techniques
 3. Advanced Design of Experiments (DOE)

Participants must pass the test which is take home; you will have 5 days after the end of the class to complete it.

Materials supplied/Software

- Leadership’s Broken Link, book provided as a pdf...you may print it
- Other materials from various instructors in support of the learning objectives
- All lecture slides in pdf format for download to your computer

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- All live online lecture recordings in MP4 format for download to your computer
- Test in WORD format
- A thirty-day free trial version of Minitab is available on the Minitab website. Minitab will be required for technical training and for the test. Purchase of Minitab is additional cost to the participant.